

	$p_1$	$p_2$	$p_3$	$p_4$	$p_5$
$gen(C^0)$	1	0	X	1	X
$gen(C^1)$	0	X	1	1	U
$gen(C^2)$	X	0	U	X	X
$gen(C^3)$	0	0	1	0	X
$glob\_gen$	B	0	1	B	N

### Generators (Weight Sets)

$s_1/0$	$s_1/1$	$s_2/0$	$s_3/1$	$s_4/0$	$s_4/1$
X	1	1	X	X	1
1	0	X	1	X	1
X	X	1	0	X	X
1	0	1	1	1	0

## Overriding Signals

FIG. 1

	$p_1$	$p_2$	$p_3$	$p_4$	$p_5$
$gen(C_0)$	1	0	X	1	X
$gen(C_1)$	0	X	1	1	U
$gen(C_2)$	X	0	U	X	X
$gen(C_3)$	0	0	1	0	X
$glob\_gen$	B	0	1	B	N

Generators (Weight Sets)

$s_{1/0}$	$s_{1/1}$	$s_{2/0}$	$s_{3/1}$	$s_{4/0}$	$s_{4/1}$
X	1	1	X	X	1
1	0	X	1	X	1
X	X	1	0	X	X
1	0	1	1	1	0

Overriding Signals

FIG. 2

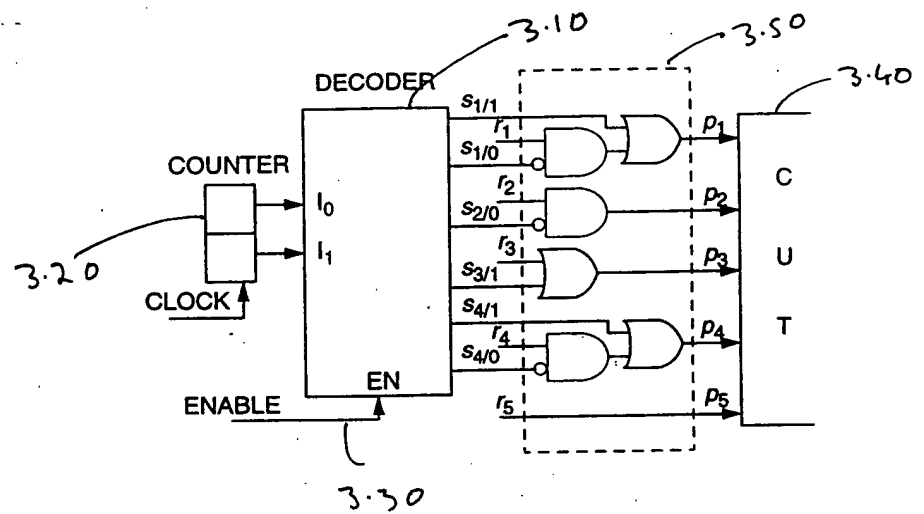


FIG. 3

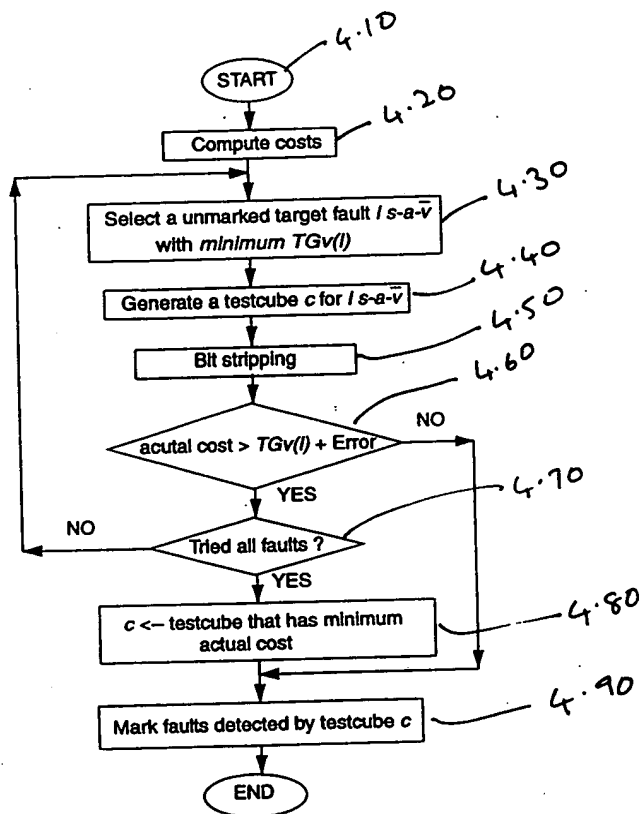


FIG. 4

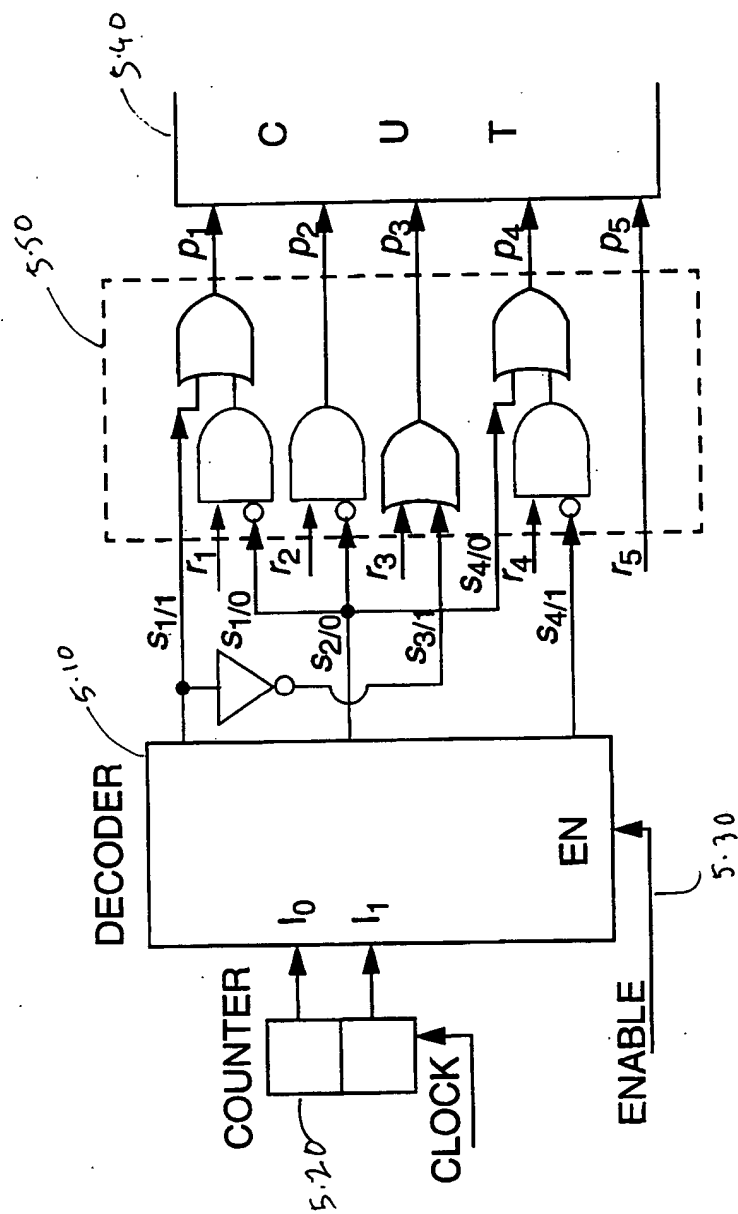


FIG. 5

TESTED: 6550240

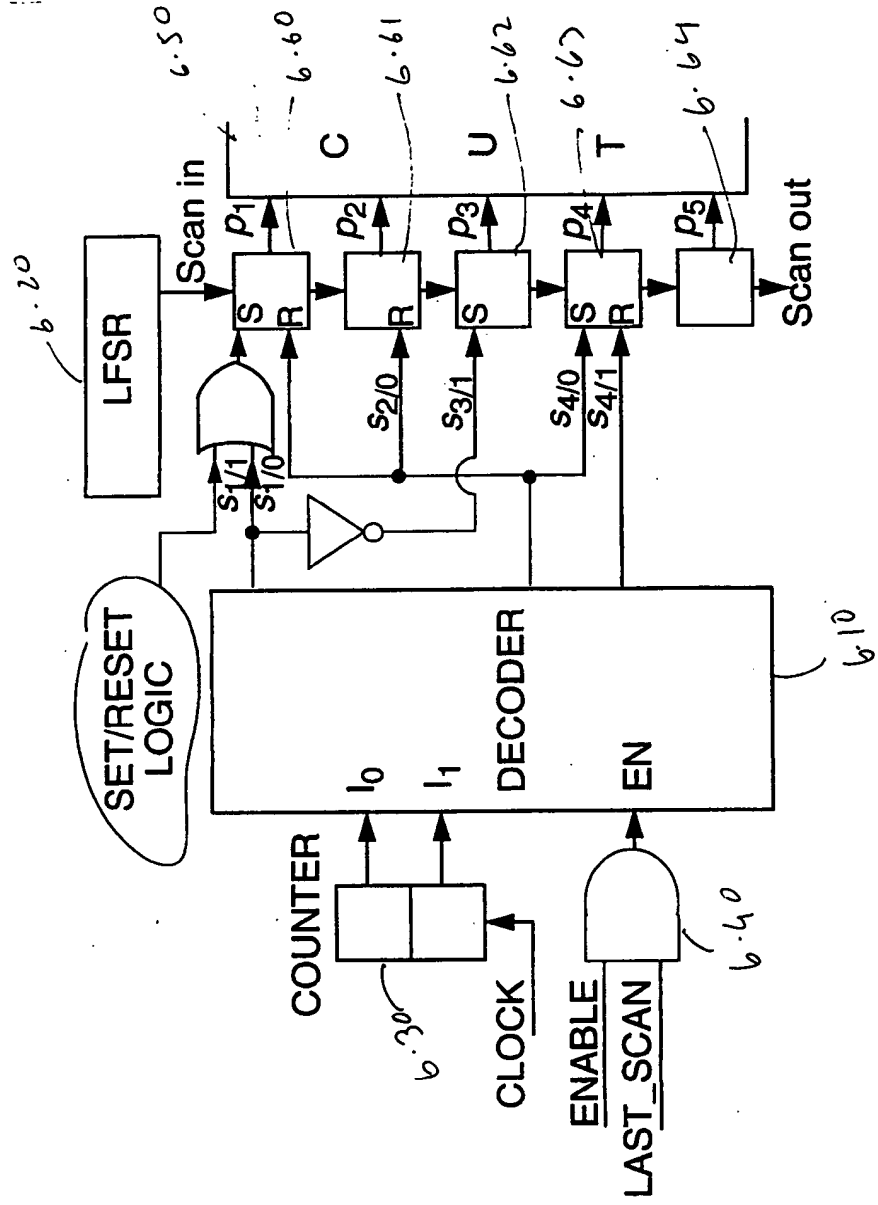


FIG. 6

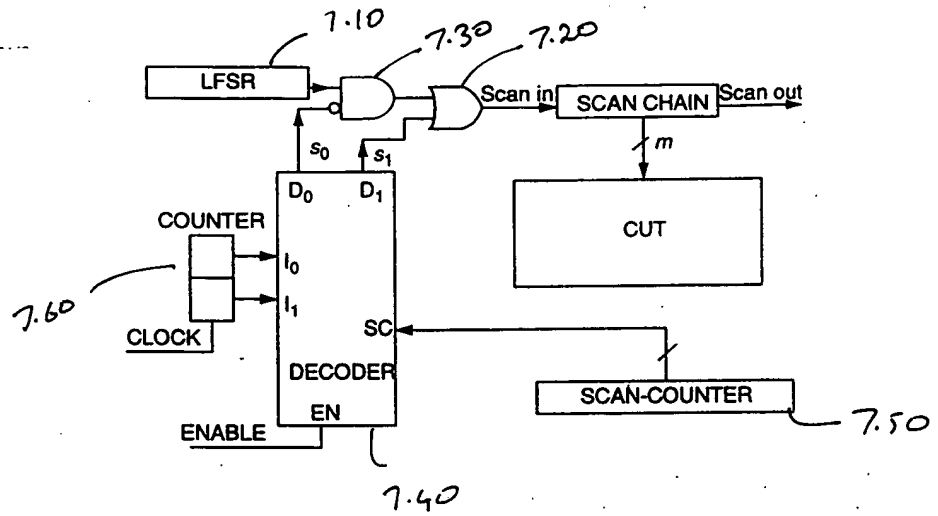


FIG. 7

	$p_0$	$p_1$	$p_2$	$p_3$	$p_4$	$p_5$	$p_6$	$p_7$
$gen(C^0)$	$U$	0	0	1	0	1	1	$X$
$gen(C^1)$	0	$U$	0	0	1	1	$X$	1

(a) generators

	$D_0$
0 001	1
0 010	1
0 100	1
1 000	1
1 010	1
1 011	1
COUNTER	SCAN-COUNTER

	$D_0$
0 000	1
0 001	1
1 001	1
1 010	1
COUNTER	SCAN-COUNTER

	$D_1$
0 011	1
0 101	1
0 110	1
1 100	1
1 101	1
1 111	1
COUNTER	SCAN-COUNTER

	$D_1$
0 011	1
0 100	1
0 101	1
1 100	1
COUNTER	SCAN-COUNTER

(b) without Toggle F/F

(c) with Toggle F/F

FIG. 8



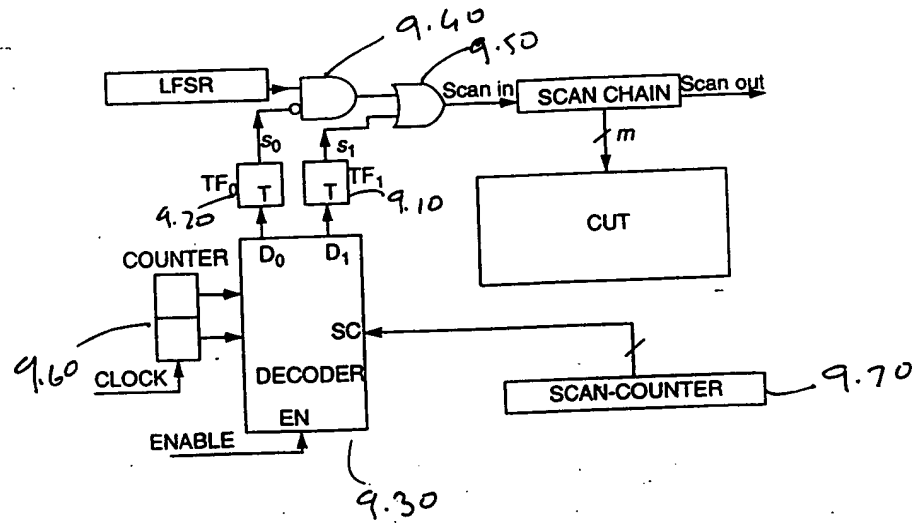


FIG. 9